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SUPPORTING INFORMATION

Title: Synthesis and Photophysical Studies of New Fluorescent Indole Derivatives Obtained from β-Bromodehydroamino Acids – Interaction with Fluoride Anions

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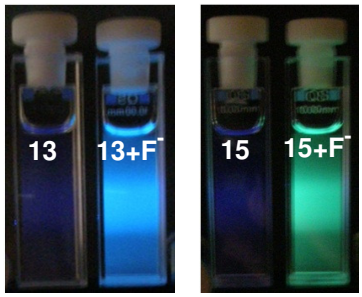

Figure S1. (a) Emission observed from a solution of compound **13** and **13**+F^- (400 equiv.) in acetonitrile, under irradiation with 340 nm light. (b) Emission observed from a solution of compound **15** and **15**+F^- (250 equiv.) in acetonitrile, under irradiation with 340 nm light.

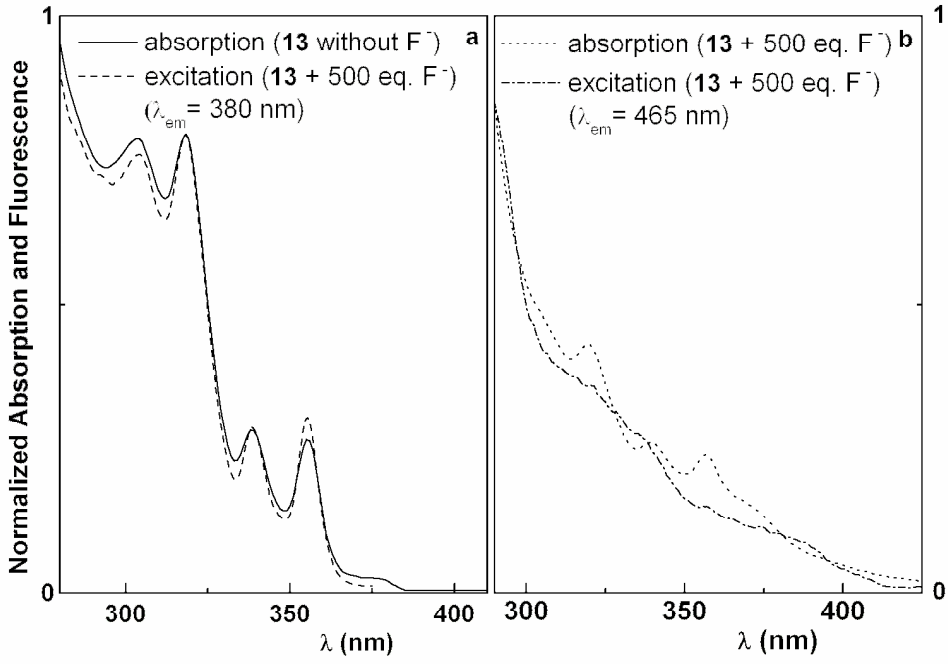

Figure S2. (a) Normalized absorption of compound **13** (5×10^{-6} M in acetonitrile) and excitation spectrum of compound **13** + 500 equiv. of F^- at λ_{em}=380 nm. (b) Normalized absorption of compound **13** + 500 equiv. of F^- and excitation of compound **13** + 500 equiv. of F^- at λ_{em} = 465 nm.

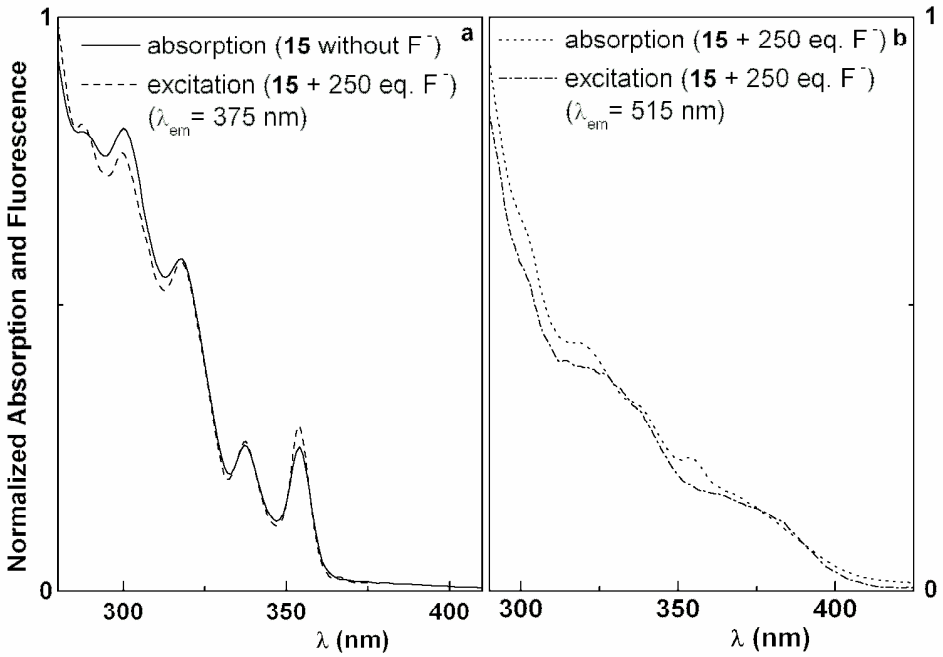

Figure S3. (a) Normalized absorption of compound **15** (5×10^{-6} M in acetonitrile) and excitation spectrum of compound **15** + 250 equiv. of F^- at $\lambda_{em} = 375$ nm. (b) Normalized absorption of compound **15** + 250 equiv. of F^- and excitation of compound **15** + 250 equiv. of F^- at $\lambda_{em} = 515$ nm.

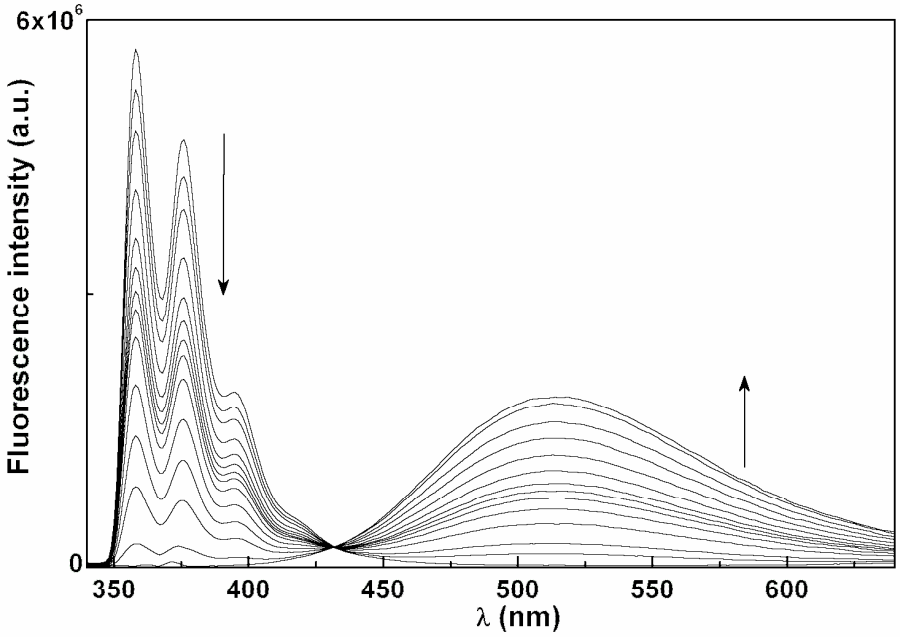

Figure S4. Fluorescence emission spectra (λ_{exc} = 335 nm) of compound **15** (5×10^{-6} M in acetonitrile) upon incremental additions of OH^- ion (as the tetraethylammonium salt in acetonitrile) (equiv: 0; 3; 5; 10; 15; 20; 25; 30; 40; 50; 60; 70; 80; 90).

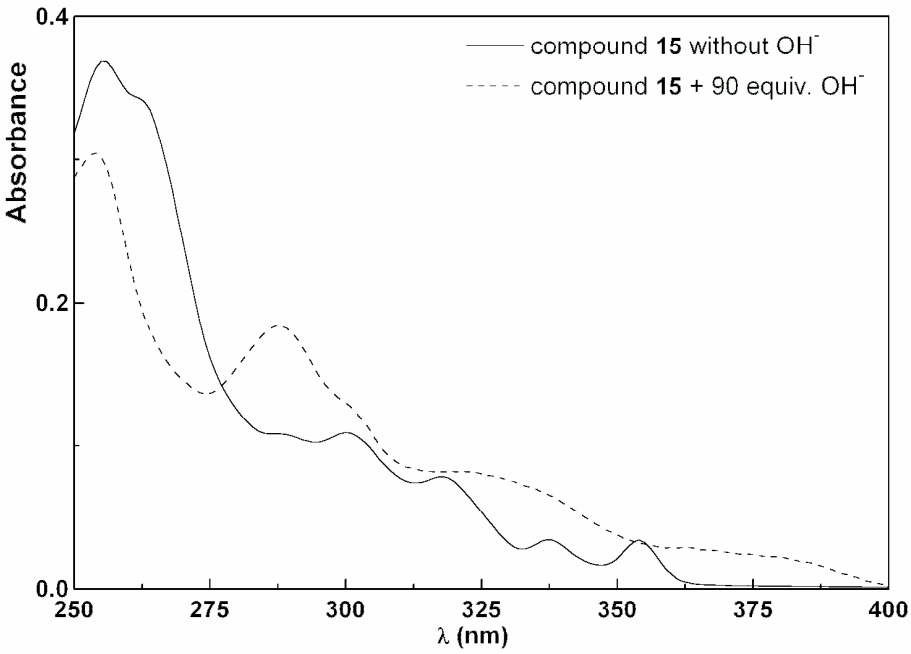

Figure S5. Absorption of compound **15** (5×10^{-6} M in acetonitrile) in the absence of OH^- and in the presence of 90 equiv. of OH^-.